APPENDIX IV

LAND USE/LAND COVER	AREAS IN HUC-12 SUBWATERSHEDS (ACRES)					
	0101	0102	0103	0104	0105	
Bare Rock/Sand/Clay	218	74	633	155	2	
Deciduous Forest	10,898	11,640	10,553	20,372	8,386	
Developed Open Space	858	628	478	1,204	314	
Evergreen Forest	732	581	707	972	125	
Grassland/Herbaceous	1,071	588	1,404	2,264	149	
High Intensity Development	17			3		
Low Intensity Development	378	172	273	458	22	
Medium Intensity Development	91	20	50	63		
Mixed Forest	3,006	1,743	2,799	2,494	552	
Open Water	211	26	227	49		
Pasture/Hay	2,070	1,146	4,191	3,636	66	
Row Crops	44	40	235	240	10	
Shrub/Scrub			2	3		
Woody Wetlands	1	1		2		
Total	19,595	16,660	21,553	31,916	9,627	

Table A4-1a.

LAND USE/LAND COVER	AREA	AREAS IN HUC-12 SUBWATERSHEDS (ACRES)						
	0106	0107	0108	0201	0202			
Bare Rock/Sand/Clay	64	131	17	340	10			
Deciduous Forest	33,787	9,834	8,199	26,999	28,797			
Developed Open Space	1,509	691	705	1,860	1,653			
Evergreen Forest	465	469	166	249	214			
Grassland/Herbaceous	706	1,721	343	962	218			
High Intensity Development		75	6	5				
Low Intensity Development	139	310	125	476	137			
Medium Intensity Development	8	280	40	39	2			
Mixed Forest	641	640	305	753	467			
Open Water	375	46	3	30	37			
Pasture/Hay	3,141	1,112	1,733	1,121	1,670			
Row Crops	789	36	391	4,138	725			
Shrub/Scrub	72	4	4	14	23			
Woody Wetlands	75	2	3		6			
Total	41,772	15,352	12,041	36,984	33,960			

Table A4-1b.

LAND USE/LAND COVER	AREAS IN HUC-12 SUBWATERSHEDS (ACRES)						
	0203	0401	0402	0403	0404		
Bare Rock/Sand/Clay	5	147		34	35		
Deciduous Forest	12,055	19,910	11,268	25,608	6,935		
Developed Open Space	1,229	789	93	2,677	731		
Evergreen Forest	368	662	292	492	54		
Grassland/Herbaceous	152	711	47	562	257		
High Intensity Development		2		10	17		
Low Intensity Development	555	194	11	776	391		
Medium Intensity Development	24	28		129	109		
Mixed Forest	516	2,554	699	741	356		
Open Water	163	43		86	2,235		
Pasture/Hay	6,369	997	688	8,848	3,141		
Row Crops	3,258	180	104	3,654	1,130		
Shrub/Scrub	83	30		101	92		
Woody Wetlands	46	4		12	10		
Total	24,823	26,250	13,203	43,731	15,492		

Table A4-1c.

LAND USE/LAND COVER	AREAS IN HUC-12 SUBWATERSHEDS (ACRES)						
	0405*	0501	0502	0503	0504		
Bare Rock/Sand/Clay		29		9	2		
Deciduous Forest		17,748	143	10,211	4,725		
Developed Open Space		718		521	465		
Evergreen Forest		605	8	96	106		
Grassland/Herbaceous		517		137	231		
High Intensity Development		10			24		
Low Intensity Development		179		209	108		
Medium Intensity Development		36		19	52		
Mixed Forest		259	2	74	69		
Open Water		10,282	230	1,326	125		
Pasture/Hay		1,696		365	983		
Row Crops		337		1,932	41		
Shrub/Scrub		42		27	30		
Woody Wetlands		23		23	8		
Total		32,481	382	14,949	6,968		

Table A4-1d.

Table A4-1a-d. Land Use Distribution in the Obey River Watershed by HUC-12. Data are from 1992 Multi-Resolution Land Characterization (MRLC) derived by applying a generalized Anderson Level II system to mosaics of Landsat thematic mapper images collected every five years. *, No data available.

HYDROLOGIC SOIL GROUPS

GROUP A SOILS have low runoff potential and high infiltration rates even when wet. They consist chiefly of sand and gravel and are well to excessively drained.

GROUP B SOILS have moderate infiltration rates when wet and consist chiefly of soils that are moderately deep to deep, moderately to well drained, and moderately coarse to coarse textures.

GROUP C SOILS have low infiltration rates when wet and consist chiefly of soils having a layer that impedes downward movement of water with moderately fine to fine texture.

GROUP D SOILS have high runoff potential, very low infiltration rates, and consist chiefly of clay soils.

Table A4-2. Hydrologic Soil Groups in Tennessee as Described in WCS. Soils are grouped into four hydrologic soil groups that describe a soil's permeability and, therefore, its susceptibility to runoff.

STATION	HUC-10	AGENCY	NAME	AREA (SQ MILES)	LOW	/ FLOW ((CFS)
					1Q10	7Q10	3Q20
03414500	0513010501	USGS	East Fork Obey River	202			
03414230	0513010501	USGS	East Fork Obey River				
03415000	0513010502	USGS	West Fork Obey River	115			
03414700	0513010502	USGS	Pubncheon Camp Creek				
03414680	0513010502	USGS	West Fork Obey River				
03416000	0513010504	USGS	Wolf River	106			
363212085272201	0513010505	USACOE	Obey River				

Table A4-3. Historical Streamflow Data Summary Based on Mean Daily Flows in the Obey River Watershed. USGS, United States Geological Survey; TVA, Tennessee Valley Authority. Additional information may be found at:

http://nwis.waterdata.usgs.gov/tn/nwis/discharge

AGENCY	STATION	LOCATION	HUC-12
TDECWPC	MEADO011.9CU	Meadow Creek @ RM 11.9	051301050101
TDECWPC	CHARL000.7OV	Charlie Branch @ RM 0.7	051301050102
TDECWPC	EFOBE039.0OV	East Fork Obey River @ RM 39.0	051301050102
TDECWPC	EFOBE039.6OV	East Fork Obey River @ RM 39.6	051301050102
TDECWPC	HURRI003.1FE	Hurricane Creek @ RM 3.1	051301050102
TDECWPC	LHURR001.20V	Little Hurricane @ RM 1.2	051301050103
TDECWPC	LOOPE001.0OV	Looper Branch @ RM 1.0	051301050103
TDECWPC	EFOBE025.8FE	East Fork Obey River @ RM 25.8	051301050104
TDECWPC	LCOVE1T1.0FE	UT to Lints Cove @ RM 1.0	051301050104
TDECWPC	LLAUR000.4FE	Little Laurel Creek @ RM 0.4	051301050104
TDECWPC	BINDI000.6FE	Big Indian Creek @ RM 0.6	051301050106
TDECWPC	EFOBE012.6FE	East Fork Obey River @ RM 12.6	051301050106
TDECWPC	LCRAB001.9FE	Little Crab Creek @ RM 1.9	051301050106
TDECWPC	ROCKC004.7FE	Rockcastle Creek @ RM 4.7	051301050107
TDECWPC	ROCKC04.75FE	Rockcastle Creek @ RM 4.75	051301050107
TDECWPC	POPLA001.3FE	Poplar Cove Creek @ RM 1.3	051301050108
TDECWPC	CUB000.7OV	Cub Creek @ RM 0.7	051301050202
TDECWPC	PCAMP000.7OV	Puncheon Camp Creek @ RM 0.7	051301050202
TDECWPC	WFOBE009.5OV	West Fk Obey River @ RM 9.5	051301050202
TDECWPC	WFOBE014.6OV	West Fork Obey @ RM 14.6	051301050202
TDECWPC	COWAN000.10V	Cowan Branch @ RM 0.1	051301050203
TDECWPC	NETTL002.5OV	Nettlecarrier Creek @ RM 2.5	051301050203
TDECWPC	WFOBE008.00V	West Fork Obey @ RM 8.0	051301050203
TDECWPC	BEAGL006.10V	Big Eagle Creek @ RM 6.1	051301050302
TDECWPC	BIG000.10V	Big Branch @ RM 0.1	051301050302
TDECWPC	DELK000.3FE	Delk Creek @ RM 0.3	051301050401
TDECWPC	WOLF040.7FE	Wolf River @ RM 40.7	051301050401
TDECWPC	RFWOL000.2FE	Rotten Fork Wolf River @ RM 0.2	051301050402
TDECWPC	CANEY000.8FE	Caney Creek @ RM 0.8	051301050403
TDECWPC	LICK001.1PI	Lick Creek @ RM 1.1	051301050403
TDECWPC	TOWN000.1PI	Town Branch @ RM 0.1	051301050403
TDECWPC	WOLF022.2PI	Wolf River @ RM 22.2	051301050403
TDECWPC	OBEY000.1CY	Obey River @ RM 0.1	051301050501

Table A4-4. STORET Water Quality Monitoring Stations in the Obey River Watershed. TDECWPC, Tennessee Department of Environment and Conservation Division of Water Pollution Control; UT, Unnamed Tributary.

FACILITY						
NUMBER	FACILITY NAME	SIC	SIC NAME	MADI	WATERBODY	HUC-12
					Rockcastle Creek	
TN0062634	Jamestown STP	4952	Sewerage System	Major	@ RM 4.75	051301050107
					Obey River @ RM 45.9	
TN0021377	Obey River Rec Area "A"	4952	Sewerage System	Major	and @ RM 45.5	051301050301
	USACOE					
TN0021393	Dale Hollow Lake	4952	Sewerage System	Major	Obey River @ RM 31.4	051301050303
					Jouette Creek Embayment	
TN0026085	Star Point Resort	4952	Sewerage System	Major	@ RM 1.4	051301050303
					UT @ RM 0.4 to Town	
TN0062626	Byrdstown STP	4952	Sewerage System	Major	Creek @ RM 0.1	051301050403
TN0058033	Cedar Hill Resort	4952	Sewerage System	Major	Obey River @ RM 10.3	051301050501
	USACOE				Obey River @ RM 7.0 and	
TN0021423	Dale Hollow Dam Shop	4952	Sewerage System	Major	@ RM 6.6	051301050504
	USFWS Dale Hollow		Fish Hatcheries			
TN0004332	National Fish Hatchery	0921	and Preserves	Major	Dry Branch @ RM 0.1	051301050504
	Dale Hollow					
TN0068098	Hydro Power Plant	4911	Electric Services	Major	Obey River @ RM 7.3	051301050504

Table A4-5. NPDES Permittees in the Obey River Watershed. SIC, Standard Industrial Classification; MADI, Major Discharge Indicator; UT, Unnamed Tributary.

FACILITY					
NUMBER	PERMITEE	COUNTY	LIVESTOCK	WATERBODY	HUC-12
				Poplar Cove	
TNA000008	Jams Threet	Fentress	Poultry	Creek	051301050107
				Poplar Cove	
TNA000064	Franklin Jim Bledsoe	Fentress	Poultry	Creek	051301050108
TNA000016	Rich's Poultry	Pickett	Poultry	Lick Creek	051301050401
TNA000015	Koger Mountain Poultry	Pickett	Poultry	Lick Creek	051301050403
TNA000029	Mountain View Farm	Pickett	Poultry	Dale Hollow Lake	051301050403
TNA000111	Tim West Family Farms	Pickett	Poultry	Begley Branch	051301050403
TNA000112	West Farms	Pickett	Poultry	Begley Branch	051301050403
TNA000121	Daniels Poultry Farm	Clay	Poultry	Poor Branch	051301050501

Table A4-6. CAFO Sites in the Tennessee Portion of the Obey River Watershed.

FACILITY	DEDMITE	010		WATERRORY	11110 40
NUMBER	PERMITEE	SIC	SIC NAME	WATERBODY	HUC-12
	Sand Products, LLC		Construction Sand		
TN072362	(Mineral Springs Mine)	1442	and Gravel	Mineral Springs Branch	051301050101
	Tennessee Mining, Inc.		Bituminous Coal		
TN071188	(Cumberland Mine #1)	1221	Underground Mining	Lints Cove	051301050104
	Hood Coal Corporation		Bituminous Coal	UT to East Fork	
TN071897	(Tar Gap Mine)	1221	Underground Mining	Obey River	051301050106
	Tennessee Mining, Inc.		Bituminous Coal		
TN053007	(Grimsley Tipple)	1221	Underground Mining	Fern camp Creek	051301050107
	Tennessee Mining, Inc.		Bituminous Coal	-	
TN071498	(Cumberland Mine #2)	1221	Underground Mining	Fern Camp Creek	051301050107
	Livingston Limestone Co.		Crushed and Broken	UT to Sinking Cane	
TN063487	(Monterey Limestone)	1422	Limestone	Hollow	051301050201
	Livingston Limestone Co.		Crushed and Broken		
TN063444	(Quarry/Processing Facility)	1422	Limestone	Big Eagle Creek	051301050302
	Frogge and Williams Stone		Crushed and Broken		
TN063525	(Wright Quarry)	1422	Limestone	UT to Wolf River	051301050401
	Fentress Co. Highway Dept.		Crushed and Broken		
TN072401	(County Hwy Dept. Quarry)	1422	Limestone	Dry Branch	051301050401
	LoJac Enterprises		Construction Sand	Garrison Branch, UT to	
TN076333	(Monterey Sand)	1442	and Gravel Mining	Garrison Branch	050113010501
	Rogers Group, Incorporated		Crushed and Broken		
TN063479	(Celina Quarry)	1422	Limestone	Obey River	051301050504

Table A4-7. Active Permitted Mining Sites in the Obey River Watershed. SIC, Standard Industrial Classification; UT, Unnamed Tributary.

FACILITY					
NUMBER	FACILITY NAME	SECTOR	RECEIVING STREAM	AREA*	HUC-12
TNR051151	Mullins Lumber Company	Р	Dale Hollow Lake	15	051301050301
TNR054580	Royal Oak Enterprises, Inc.	C, A	Meadow Creek	51.57	051301050101
TNR055945	Perdue Farms	U	Monterey City Lake	10.617	051301050201
TNR056438	Pickett County Sanitary Landfill	L	UT to Town Branch	10.77	051301050301
TNR051275	Allons sawmills, Incorporated	Α	Little eagle Creek	23.75	051301050302
TNR054233	Cooper Recycling, LLC	N	Big Eagle Creek	3.88	051301050302
TNR054030	Doubletop Storage Area	N, P	Chapman Branch	5.6	051301050403
TNR055915	Ronnie Smith	J	Day Creek	2	051301050403
TNR053267	APAC-Celina Plant	D	Obey River	3	051301050504

Table A4-8. Active Permitted TMSP Facilities in the Obey River Watershed. Area, acres of property associated with industrial activity; UT, Unnamed Tributary. Sector details may be found in Table A4-11.

SECTOR	TMSP SECTOR NAME
Α	Timber Products Facilities
	Facilities That Manufacture Metal Products including Jewelry, Silverware
AA	and Plated Ware
	Facilities That Manufacture Transportation Equipment, Industrial
AB	or Commercial Machinery
	Facilities That Manufacture Electronic and Electrical Equipment and Components,
AC	Photographic and Optical Goods
AD	Facilities That Are Not Covered Under Sectors A Thru AC (Monitoring Required)
AE	Facilities That Are Not Covered Under Sectors A Thru AC (Monitoring Not Required)
В	Paper and Allied Products Manufacturing Facilities
С	Chemical and Allied Products Manufacturing Facilities
D	Asphalt Paving, Roofing Materials, and Lubricant Manufacturing Facilities
E	Glass, Clay, Cement, Concrete, and Gypsum Product Manufacturing Facilities
F	Primary Metals Facilities
G	Metal Mines (Ore Mining and Dressing) (RESERVED)
Н	Inactive Coal Mines and Inactive Coal Mining-Related Facilities
I	Oil or Gas Extraction Facilities
	Construction Sand and Gravel Mining and Processing and Dimension Stone Mining
J	and Quarrying Facilities
K	Hazardous Waste Treatment Storage or Disposal Facilities
L	Landfills and Land Application Sites
M	Automobile Salvage Yards
N	Scrap Recycling and Waste and Recycling Facilities
0	Steam Electric Power Generating Facilities
	Vehicle Maintenance or Equipment Cleaning areas at Motor Freight Transportation
_	Facilities, Passenger Transportation Facilities, Petroleum Bulk Oil Stations and
Р	Terminals, the United States Postal Service, or Railroad Transportation Facilities
	Vehicle Maintenance Areas and Equipment Cleaning Areas of
Q	Water Transportation Facilities
R	Ship or Boat Building and Repair Yards
	Vehicle Maintenance Areas, Equipment Cleaning Areas or From Airport Deicing
S	Operations located at Air Transportation Facilities
T	Wastewater Treatment Works
U	Food and Kindred Products Facilities
V	Textile Mills, Apparel and other Fabric Product Manufacturing Facilities
W	Furniture and Fixture Manufacturing Facilities
X	Printing and Platemaking Facilities
Υ	Rubber and Miscellaneous Plastic Product Manufacturing Facilities
Z	Leather Tanning and Finishing Facilities

Table A4-9. TMSP Sectors and Descriptions.